

MICROORGANISM-IMPERMEABLE MEMBRANE

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Abstract

PURPOSE: To provide the subject membrane having specific surface wetting index, net structure, porosity, gaseous air permeability, etc., and suitable for medical sheets, operation wears, gloves, etc., by adding an inorganic filler, etc., to a polyolefin and subsequently processing into a porous membrane.
CONSTITUTION: (A) A polyolefin resin such as polyethylene is melt-mixed with (B) an inorganic filler such as calcium oxide preferably in an amount of 30-300 pts.wt. (based on 100 pts.wt. of the component A) and subsequently formed into a filmy shape to provide the objective membrane having a surface-wetting index of ≤ 60 , an opened pore net structure satisfied with the equation (D_{\max} is the maximum diameter of the fine pores; r_0 is the wetting index), a porosity of 30-70% and a gaseous air permeability of 10-10000 sec. (per 100cc) to provide the objective membrane.

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